

88-116706/17 LION CORP 05.09.86-JP-208969-(22.03.88) C11d-01/72 C11d-07/50 C11d-10/12	E19 G04 LIOY 05.09.86 *J6 3063-799-A	LIOY 05.09.86 *J6 3063-799-A E(5-B, 5-G9D, 10-A9B7, 10-A9B8, 10-C4C, 10-C4L, 10-E4K, 10-E4M3) G(4-88)
<p>Emulsifier compsn. for dry-cleaning solvent - comprises polyoxyethylene nonionic activator and e.g. carboxylic acid cpd. for highly stable water emulsion C88-052625</p> <p>A new emulsifier compsn. for dry-cleaning solvents contains (A) 5-70 wt. % of a nonionic activator of formula (I) and (B) one or more cpds. of formulae (II) to (V) with a (B)/(A) ratio of 0.05-0.7.</p> <p style="text-align: center;">(I) <math>R_1-O-\overset{R_2}{\underset{ }{\text{CH}_2\text{ClO}}}-\text{H}</math></p> <p style="text-align: center;">(II) <math>R_3-\text{COO}-\text{(CH}_2\text{CHO})_{n_2}-\text{H}</math></p> <p style="text-align: center;">(III) <math>R_5-\text{COOM}_1</math></p> <p style="text-align: center;">(IV) <math>\begin{array}{c} R_6 \\   \\ X-\text{SO}_3\text{M}_2 \\   \\ R_7 \end{array}</math></p> <p style="text-align: center;">(V) <math>\begin{array}{c} O \\   \\ R_8-\text{(CH}_2\text{CH}_2\text{O})_{n_1}-\text{P} \\   \\ X_1 \\   \\ Y_1 \\   \\ \text{O} \\   \\ \text{O}-\text{C}-\text{CH}_2 \\   \\ \text{O}-\text{C}-\text{CH}_2 \\    \\ \text{O} \end{array}</math></p> <p><math>n_1 = 2-20</math>; <math>n_2 = 8-20</math>C alkyl or alkenyl gp. or (8-20C alkyl gp.)-substd. phenyl gp.;  <math>R_1 = 8-20</math>C alkyl or alkenyl gp. or (8-20C alkyl gp.)-substd. phenyl gp.;  <math>R_3 = \text{H or CH}_3</math>; <math>R_4 = \text{H or CH}_3</math>; <math>R_5 = \text{Ca, Al or Mg}</math>.  <math>X = (\text{i})</math> or <math>(\text{ii})</math>.  <math>R_6, R_7 = \text{H or 8-22C alkyl or alkenyl (they may be same of different but they are not both II)}</math>.  <math>M_1 = \text{alkali(ne earth) metal}</math>,  <math>R_8 = 8-20</math>C alkyl or alkenyl,  <math>n_1 = 0-10</math>;  <math>X_1, Y_1 = \text{OM}_1</math> or <math>-(\text{OCH}_2\text{CH}_2)_{n_1}-\text{OR}_8</math> and  <math>M_2 = \text{H or alkali(ne earth) metal}</math>.</p>		

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$R_2 = \text{H or CH}_3$ ;  
 $R_1 = 8-20$ C alkyl or alkenyl gp. or (8-20C alkyl or alkenyl gp.)-substd. phenyl gp.;  
 $n_2 = 2-20$   
 $R_3 = \text{H or CH}_3$ ,  
 $R_5 = 8-20$ C alkyl or alkenyl or (8-20C alkyl)-substd. phenyl,  
 $M_1 = \text{Ca, Al or Mg}$ .  
 $X = (\text{i})$  or  $(\text{ii})$ .  
 $R_6, R_7 = \text{H or 8-22C alkyl or alkenyl (they may be same of different but they are not both II)}$ .  
 $M_2 = \text{alkali(ne earth) metal}$ ,  
 $R_8 = 8-20$ C alkyl or alkenyl,  
 $n_1 = 0-10$ ;  
 $X_1, Y_1 = \text{OM}_1$  or  $-(\text{OCH}_2\text{CH}_2)_{n_1}-\text{OR}_8$  and  
 $M_3 = \text{H or alkali(ne earth) metal}$ .

### USE/ADVANTAGE

The compsn. gives a highly stable water-solvent emulsion. It prevents resoiling and gives good flexibility to wool, cotton, flex, etc. (6ppDwgNo0/0).

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